



Fort Detrick and National Interagency Confederation for Biological Research (NICBR)

Frederick Community College

Dr. Carol Eaton
President



Workforce for the Future – The Way Forward

Fort Detrick/NICBR Education Summit
November 15, 2006

Dr. Carol Eaton, President



The demographic information in
this presentation was
developed by
CSD People Architects



Frederick Community College

Growth of the U.S.

- U.S. unique
 - Only developed country that is growing
 - 32% by 2050
- Europe will lose 10% by mid-century
- Eastern Europe lost 3.4 million people 2000 to 2005
- Very low fertility in developed countries
- Very high fertility in Africa and Middle East



Frederick Community College

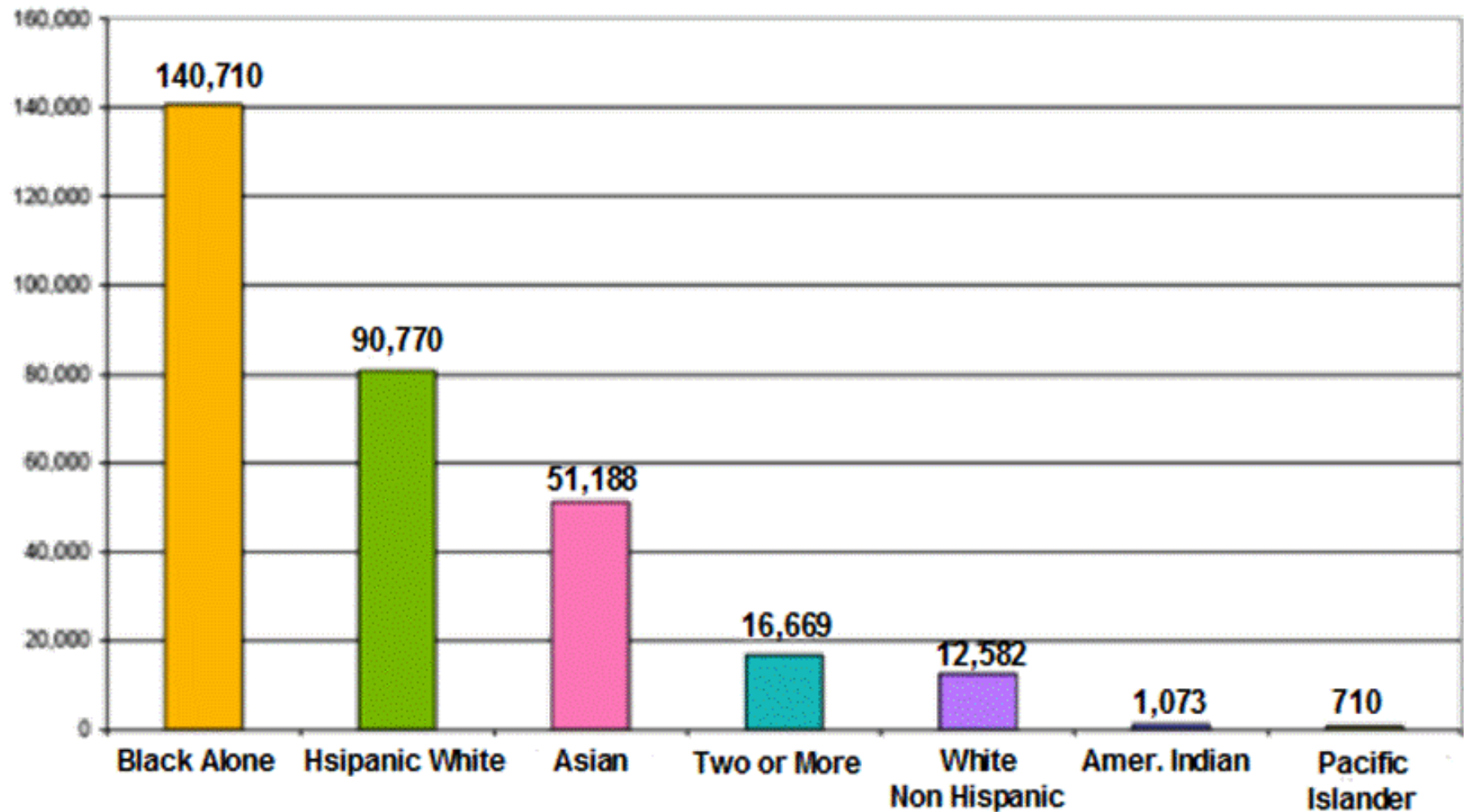
Maryland and Frederick Co. Population 2005 – 2025

- | | |
|----------------------------|-----------------------------|
| • <u>Maryland Increase</u> | • <u>Frederick Increase</u> |
| • 2005-2010 - 298,375 | • 2005-2010 - 21,350 |
| • 2010-2015 - 219,650 | • 2010-2015 - 22,400 |
| • 2015-2020 - 199,750 | • 2015-2020 – 22,300 |
| • 2020-2025 - 185,675 | • 2020-2025 – 22,500 |



Frederick Community College

Maryland Growth - 2000 to 2005



Frederick Community College

Frederick County Migration 1995 - 2000

In-migration

• Montgomery	11,165
• Prince George	1,994
• Carroll	1,627
• Washington Co	1,402
• Howard Co	1,302

Out-migration

• Montgomery	3,248
• Washington Co	3,118
• Carroll Co	1,275
• Jefferson, WV	1,044
• Prince Georges	847



Frederick Community College

Where Frederick Residents Work

- Frederick County 59%
- Montgomery County 22%
- Washington D.C. 3%
- Washington Co., MD 2%
- Carroll County 2%
- Fairfax Co., VA 2%
- Howard County 2%



Frederick Community College

Spellings Report – Six Major Challenges

- Need to expand access
- Enhance affordability
- Cut costs
- Restructure existing financial aid programs
- Raise the quality of teaching and learning
- Increase accountability



Frederick Community College

Educational Attainment

Maryland and Frederick County 2005

Population 25 years and over	MD	Frederick
Less than 9th grade	4.3%	3.3%
9th to 12th grade, no diploma	8.7%	6.6%
High school graduate (includes equivalency)	26.7%	28.2%
Some college, no degree	19.6%	20.4%
Associate's degree	6.3%	7.8%
Bachelor's degree	19.3%	21.9%
Graduate or professional degree	15.2%	11.8%



Frederick Community College

Job Training and Education

- Frederick County residents' jobs are urban and suburban – Agrarian jobs greatly diminished
- 41% of jobs are outside the County
- Residents compete in regional job market, not just local
- Job training/education required to be tailored to compete in this broader market



Frederick Community College

Frederick – Highest Number of Job Openings 2012

<u>Total</u>	<u>50,175</u>
Cashiers	2,180
Retail Salespersons	1,930
Waiters	1,555
Janitors	1,525
General Managers	1,180



Frederick Community College

Frederick Highest Number of Job Openings Associate Degree 2012

Registered Nurses	595
Automotive Techs.	180
Fitness Trainers	135
Computer Support	135
Licensed Practical Nurses	115



Frederick Community College

Frederick Highest Number of Job Openings Bachelor's Degree 2012

General Managers	790
Systems Managers	300
Financial Advisors	255
Software Engineers	215
Construction Mgr.	185



Frederick Community College

Teacher Education

Helping students learn to BE,
not just learn to know



Frederick Community College

Recommendations

- Develop incentives for business and industry to partner with education
- Double the number of engineering, mathematics, computer, and science majors in Frederick County by 2012
- Focus on transferability of courses from two-year to four-year programs
- Consider a bioscience higher education center in Frederick County



Frederick Community College